

I CLAIM

1. A manufacturing method for a synthetic leather comprising:

5 A first step of materials measuring and feeding by means of a measuring and conveying device, said measuring and conveying device consisting at least one tank storing isocyanate polymer containing NCO, one tank storing polyol containing OH, material stored in each said tank fed in a liquid condition and in a
10 measured volume;

A second step of foaming by injecting foaming agent into a mixing and injecting head used in a third step described below in case of need;

15 A third step of mixing and injecting the materials coming from said first step by means of an injecting and mixing device including an injecting and mixing head, said injecting and mixing head having a lengthwise center mixing hole, a rotatable threaded rod fitted in said mixing hole and rotated to mix the materials and
20 letting the materials instantly reacting with each other to form liquid mixed materials and vertically flowing down;

A fourth step of conveying two basic cloths by means of two winding wheels to below said injecting and
25 mixing device, said two winding wheels respectively positioned below two opposite sides of said injecting and mixing device;

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A fifth step of materials flowing and compressing by means of a vertical flowing control device, which is positioned below said injecting and mixing device, consisting of two parallel rollers, said two basic cloths
5 conveyed to an upper position of said two rollers and then converging at a center of the upper position and then moving vertically down, said liquid mixed materials flowing out of said injecting mixing head down to the two basic cloths just conveyed to said center upper
10 position so that said liquid mixed materials is sandwiched between said two basic cloths, which become finished synthetic leather; and,

A sixth step of winding finished synthetic leather by means of two winding device.

15 2. The manufacturing method for a synthetic leather as claimed in Claim 1, wherein each said tank for material has a definite volume pump to pump out a measured liquid material stored therein.

20 3. The manufacturing method for synthetic leather as claimed in Claim 1, wherein said liquid materials first flow through a plurality of feeders of said injecting and mixing device and then are guided in the injecting and mixing head, each said feeder having an injecting hole formed in a front end center, an inlet and a return hole in
25 an upper side an inner chamber lengthwise formed in an intermediate portion, a control rod fitted in the inner chamber, said control rod having a piston connected with

its end; said liquid mixed materials entering the inlet and injected out of said injecting hole to move in the mixing hole for mixing.

4. The manufacturing method for a synthetic
5 leather as claimed in Claim 1, wherein said foaming device feeds out an agent for promoting foaming function, such as gas nitrogen or gas, water, or physical foaming agents.

5. The manufacturing method for a synthetic
10 leather as claimed in Claim 1, wherein said basic cloths may be cloth, removable paper, plastic skin or the like.

6. The manufacturing method for a synthetic
15 leather as claimed in Claim 1, wherein said two rollers of the compressing and vertical flowing control device can be adjusted in a gap between them for controlling the depth of said liquid mixed materials sandwiched between them.

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